LISTING OF CLAIMS:

Claims 1 and 2 (Cancel)

Claim 3 (Currently amended) The surface-modified, pyrogenically produced oxides doped by aerosol, characterized in that the oxides are selected from the group consisting of SiO_2, Al_2O_3, TiO_2, B_2O_3, ZrO_2, In_2O_3, ZnO, Fe_2O_3, Nb_2O_5, V_2O_5, WO_3, SnO_2 and GeO_2 ~~according to claim 1 or 2~~, wherein the surface-is modified with one or several compounds selected from the following groups:

a) Organosilanes ~~mixture~~ having either ~~the~~ formulas $(RO)_3Si(C_nH_{2n+1})$ or ~~and~~ $(RO)_3Si(C_nH_{2n-1})$, wherein

R = alkyl, and

n = 1 – 20;

b) Organosilanes ~~mixture~~ having either ~~the~~ formulas $R'_x(RO)_ySi(C_nH_{2n+1})$ or ~~and~~ $(RO)_3Si(C_nH_{2n+1})$, wherein

R = alkyl,

R' = alkyl,

R' = cycloalkyl

n = 1 – 20,

x+y = 3,

x = 1, or 2, and

y = 1, or 2;

c) Halogen organosilanes having either ~~the~~ formulas $X_3 Si(C_nH_{2n+1})$ or ~~and~~ $X_3 Si(C_nH_{2n-1})$, wherein

X = Cl, or Br, and

n = 1 – 20;

d) Halogen organosilanes having either ~~the~~ formulas $X_2 (R') Si(C_nH_{2n+1})$ or ~~and~~

$X_2 (R') Si(C_nH_{2n-1})$, wherein

X = Cl, or Br

R' = alkyl,

[[R' =]] cycloalkyl, and

n = 1 – 20;

e) Halogen organosilanes having ~~the~~ formulas $X (R')_2 Si(C_nH_{2n+1})$ ~~and~~ or

$X (R')_2 Si(C_nH_{2n-1})$, wherein

X = Cl, or Br;

R' = alkyl,

[[R' =]] cycloalkyl, and

n = 1 – 20;

f) Organosilanes having the formula $(RO)_3Si(CH_2)_m$-R'

R = alkyl,

m = 0, or 1-20, and

R' = methyl-, aryl-, $-C_6H_5$, substituted phenyl groups,

$-C_4F_9$, OCF_2-CHF-CF_3, $-C_6F_{13}$, -O-CF_2-CHF_2,

$-NH_2$, $=N_3$, -SCN, -CH=CH_2, -NH- CH_2-CH_2-NH_2,

-N-(CH_2-CH_2-CH_2NH_2)$_2$,

-OOC(CH_3)[[c]]C = CH_2,

-OCH_2-CH(O) CH_2,

-NH-CO-N-CO- $(CH_2)_5$,

-NH-COO-CH_3, -NH-COO-CH_2-CH_3, -NH-$(CH_2)_3Si(OR)_3$,

$-S_x$-$(CH_2)_3Si(OR)_3$, where x is one or more,

-SH, or

-NR'R''R''', wherein R' = alkyl, or aryl; R'' = H, alkyl, aryl; and R''' = H, alkyl, aryl, benzyl, or C_2H_4N(R'''')$_2$ ~~R''''' with~~, wherein R'''' = H, or alkyl ~~and~~

~~R''''' = H, or alkyl~~;

g) Organosilanes having the formula $(R'')_x$ $(RO)_y$ $Si(CH_2)_m$-R', wherein

R'' = alkyl, or cycloalkyl,

x+y = 2,

x = 1, or 2,

y = 1, or 2,

m = 0, or 1 to 20, and

R' = methyl-, aryl, $-C_6H_5$, substituted phenyl groups,

$-C_4F_9$, $-OCF_2-CHF-CF_3$, $-C_6F_{13}$, $-O-CF_2-CHF_2$,

$-NH_2$, $-N_3$, SCN, $-CH=CH_2$, $-NH-CH_2-CH_2-NH_2$,

$-N-(CH_2-CH_2-NH_2)_2$,

$-OOC(CH_3)C=CH_2$,

$-OCH_2-CH(O)CH_2$,

$-NH-CO-N-CO-(CH_2)_5$,

$-NH-COO-CH_3$, $-NH-COO-CH_2-CH_3$, $-NH-(CH_2)_3Si(OR)_3$,

$-S_x-(CH_2)_3Si(OR)_3$,

-SH , or

-NR'R''R''', wherein R' = alkyl, or aryl; R'' = H,

alkyl, or aryl; and R''' = H, alkyl, aryl, benzyl, or

$C_2H_4N(R'''')_2$ ~~R''''' with,~~ wherein R'''' = H, or alkyl ~~and~~

~~R''''' = H, alkyl)~~ ;

h) Halogen organosilanes having the formula $X_3Si(CH_2)_m-R'$, wherein

X = Cl, or Br,

m = 0, 1 – 20,

R' = methyl-, aryl., $-C_6H_5$, substituted phenyl groups

$-C_4F_9$, $-OCF_2-CHF-CF_3$, $-C_6F_{13}$, $-O-CF_2-CHF_2$,

$-NH_2$, $-N_3$, SCN, $-CH=CH_2$, $-NH-CH_2-CH_2-NH_2$,

-N-(CH_2-CH_2-NH_2)$_2$,

-OOC (CH_3)C = CH_2,

-OCH_2-CH(O) CH_2,

-NH-CO-N-CO-$(CH_2)_5$,

-NH-COO-CH_3, -NH-COO-CH_2-CH_3, -NH-$(CH_2)_3Si(OR)_3$,

-S_x-$(CH_2)_3Si(OR)_3$, where x is one or more, or

-SH;

i) Halogen organosilanes having the formula $(R)X_2Si(CH_2)_m$-R', wherein

X = Cl, or Br,

R = alkyl such as methyl-, [[-]] ethyl-, or propyl-,

m = 0, or 1 – 20, and

R' = methyl-, aryl- , -C_6H_5, substituted phenyl groups,

-C_4F_9, -OCF_2-CHF-CF_3, -C_6F_{13}, -O-CF_2-CHF_2,

-NH_2, -N_3, SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2,

-N-(CH_2-CH_2-NH_2)$_2$,

-OOC (CH_3)C = CH_2,

-OCH_2-CH(O) CH_2,

-NH-CO-N-CO-$(CH_2)_5$,

-NH-COO-CH_3, -NH-COO-CH_2-CH_3,

-NH-$(CH_2)_3Si(OR)_3$,

-S_x-$(CH_2)_3Si(OR)_3$, where x is one or more, or

-SH;

(j) Halogen organosilanes having the formula $(R)_2X\ Si(CH_2)_m$-R', wherein

X = Cl, or Br,

R = alkyl,

m = 0, or 1 – 20, and

R' = methyl-, aryl--, $-C_6H_5$, substituted phenyl groups,

$-C_4F_9$, $-OCF_2$-CHF-CF_3, $-C_6F_{13}$, -O-CF_2-CHF_2,

$-NH_2$, $-N_3$, SCN, -CH=CH_2, -NH-CH_2-CH_2-NH_2,

-N-(CH_2-CH_2-NH_2)$_2$,

-OOC (CH_3)C = CH_2,

-OCH_2-CH(O) CH_2,

-NH-CO-N-CO-$(CH_2)_5$,

-NH-COO-CH_3, -NH-COO-CH_2-CH_3, -NH-$(CH_2)_3Si(OR)_3$,

$-S_x$-$(CH_2)_3Si(OR)_3$, where x is one or more, or

-SH;

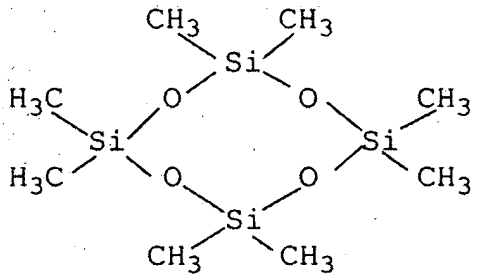
(k) Silazanes having the formula

$$R'R_2Si\text{-}N(H)\text{-}SiR_2R'$$

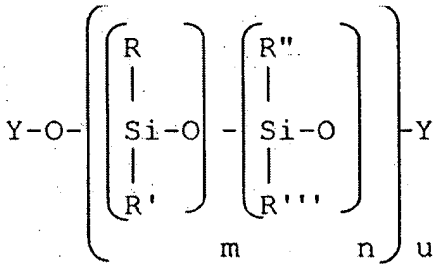
wherein R = alkyl, and

R' = alkyl, or vinyl; or

(l) Cyclic polysiloxanes D 3, D 4 or D 5, where D4 has the formula:



m) Polysiloxanes or silicone oils having <u>any one of</u> the formula



$m = 0,1,2,3,...\infty$
$n = 0,1,2,3,...\infty$
$u = 0,1,2,3,...\infty$

$Y=CH_3$, H, C_nH_{2n+1} n=1-20
$Y=Si(CH_3)_3$, $Si(CH_3)_2H$

, $Si(CH_3)_2OH$, $Si(CH_3)_2(OCH_3)$, <u>or</u>

$Si(CH_3)_2(C_nH_{2n+1})$, <u>wherein</u> n=1-20,

wherein,

R = alkyl, aryl, $(CH_2)_n$-NH_2, or H,

R' = alkyl, aryl, $(CH_2)_n$-NH_2, or H,

R'' = alkyl, aryl, $(CH_2)_n$-NH_2, or H,

R'''= alkyl, aryl, $(CH_2)_n$-NH_2, or H.;

Claim 4 (Currently amended) A method of producing the surface-modified oxides in accordance with claim 3 ~~1 or 2~~, comprising placing pyrogenically produced oxides doped by aerosol in a suitable mixing container, spraying the oxides under intensive mixing with the surface-modification reagent or a mixture of several surface-modification reagents.

Claim 5 (Currently amended) In a reinforcing filler composition wherein the improvement comprises the surface-modified oxides according to claim 3 ~~1 or 2~~ as reinforcing filler.

Claim 6 (Original) The method of claim 4 wherein the spraying step includes spraying with water and/or acid prior to the spraying with the surface-modification reagent or a mixture of several surface-modification reagents.

Claim 7 (Original) The method of claim 4 further comprising re-mixing at 15 to 30 minutes and tempering at a temperature of 100 to 400 °C for a period of 1 to 6 hours.

Claim 8 (Original) The surface-modified, pyrogenically produced oxides according to claim 3 wherein the cyclic polysiloxanes is type D 4.

Claim 9 (Original) The surface-modified, pyrogenically produced oxides according to claim 8 wherein the type D4 cyclic polysiloxanes is octamethylcyclotetrasiloxane.